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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/823,715	03/30/2001	Jerome L. Elkind	TI-29069	7467

7590 05/19/2003

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EXAMINER

VANORE, DAVID A

ART UNIT

PAPER NUMBER

2881

DATE MAILED: 05/19/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.	ELKIND ET AL.
Examiner	Art Unit David A Vanore

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 30 April 2003.

2a) This action is FINAL. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 8-20 is/are pending in the application.

4a) Of the above claim(s) 1-7 is/are withdrawn from consideration.

5) Claim(s) _____ is/are allowed.

6) Claim(s) 8-20 is/are rejected.

7) Claim(s) _____ is/are objected to.

8) Claim(s) 1-20 are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on 30 March 2001 is/are: a) accepted or b) objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

11) The proposed drawing correction filed on _____ is: a) approved b) disapproved by the Examiner.

If approved, corrected drawings are required in reply to this Office action.

12) The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All b) Some * c) None of:

1. Certified copies of the priority documents have been received.

2. Certified copies of the priority documents have been received in Application No. _____.

3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).

a) The translation of the foreign language provisional application has been received.

15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s). _____.

2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) Notice of Informal Patent Application (PTO-152)

3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____ 6) Other: _____

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 8-20 stand rejected under 35 U.S.C. 102(b) as being clearly anticipated by Morozov et al.

Morozov et al. teaches a device and method for surface plasmon analysis where an analyte and ligand, which are competitors for binding sites are introduced into a device where an electrical or magnetic field is applied to cause particles to experience a bias, comprising the following with regards to claims 8-16:

1) Surface plasmon resonance microscope (Col. 26 Lines 5-13) which inherently includes a surface plasmon sensor and a surface plasmon resonance layer in optical communication with the an exterior surface of the sensor. This is inherent because if the layer were not in optical communication with the external surface of the sensor, light would not be able to impinge on the plasmon layer and no detection could take place.

See US Patent 5,485,277 (Foster) Fig. 2a and Col. 5 Line 10-27.

2) A transparent housing and source of electromagnetic radiation (Col. 16 Line 65-Col. 17 Line 11).

3) A photodetector (520) and associated light source (518) for detecting changes in a sample (Col. 13 Line 64 – Col. 14 line 19).

4) An analyte detection chamber (Fig. 31) where electrical and magnetic fields are generated to cause bias forces in an analyte substance (Col. 14 Lines 20-58).

5) A flow cell having flow path for use in a surface plasmon resonance sensor (Fig. 8). As discussed above, the method and apparatus for bound analyte/ligand analysis as taught by Morozov et al. is taught to be usable in surface plasmon microscopy.

Regarding claims 17 and 18, the device of Morozov et al. teaches the method of claims 15 and 16 as recited above. Since the apparatus of Morozov et al. includes a sample delivery and sensing means as cited above, in the form of the surface plasmon resonance microscopy means and the flow cell, claims 17 and 18 are anticipated by Morozov et al.

Regarding claims 19 and 20, Morozov et al. teaches a device and method which uses DNA-protein cross linked samples. DNA is nucleic acid and the binding between DNA and protein samples is competitive. Therefore, Morozov et al. anticipates claims 19 and 20.

Response to Arguments

Applicant's arguments filed April 30, 2003 have been fully considered but they are not persuasive. Applicant argues that Morozov et al. fails to teach or suggest any of the recited combinations of elements laid out in any of the claims.

Applicant's arguments do not comply with 37 CFR 1.111(c) because they do not clearly point out the patentable novelty which he or she thinks the claims present in view

of the state of the art disclosed by the references cited or the objections made. Further, they do not show how the amendments avoid such references or objections.

The examiner further disagrees with the Applicant's assertion that Morozov et al. fails to teach or suggest any of the combinations of elements claimed. As such, all claims stand rejected and the rejection is made final.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David A Vanore whose telephone number is 703-306-0246. The examiner can normally be reached on M-F 7:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Lee can be reached on 703-308-4116. The fax phone numbers for

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the organization where this application or proceeding is assigned are 703-872-9318 for regular communications and 703-872-9319 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

dav
May 7, 2003


JOHN R. LEE
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800